

**SECRET**

25 YEAR RE-REVIEW

RESPONSIBLE OFFICER  
CRYPTOROOM 2049-B, M-BUILDING  
CHIEF, COMMUNICATIONS DIVISION

7 JULY 1948

**SECURITY OF CRYPTOGRAPHIC OPERATIONS, ROOM 2049-B**

THIS MEMORANDUM SUPPLEMENTS THE DOCUMENT "SECURITY REQUIREMENTS FOR CRYPTOGRAPHIC OPERATIONS" (SHORT TITLE: UMLAUT, REG. NO. 11) AND OUTLINES THE SPECIFIC REQUIREMENTS FOR CRYPTOGRAPHIC OPERATIONS IN ROOM 2049-B M-BUILDING. IT WILL BE MAINTAINED WITH UMLAUT AT ALL TIMES.

**1. SIGHUAD**

A. THE SIGHUAD IS A CLASSIFIED CRYPTOGRAPHIC DEVICE WHICH HAS BEEN MOUNTED ON A SLIDING DRAWER OF A SAFE CH-76. BY PULLING THE DRAWER FORWARD THE SIGHUAD MAY BE OPERATED DIRECTLY FROM THE SAFE. A SPECIAL SWITCH HAS BEEN INSTALLED AT THE REAR OF THE DRAWER WHICH WILL AUTOMATICALLY TURN ON A SIGNAL OR WARNING LIGHT OUTSIDE THE CRYPTOROOM DOOR WHEN THE SIGHUAD IS IN AN OPERATING POSITION AND TURN OFF THAT LIGHT WHEN THE SIGHUAD HAS BEEN COMPLETELY RETURNED TO THE SAFE. THIS SAME SWITCH ALSO PREVENTS THE SIGHUAD UNIT FROM BEING TURNED ON WHEN THE DRAWER SUPPORTING THE UNIT IS RETURNED ALL THE WAY INTO THE SAFE. AFTER THE SIGHUAD HAS BEEN SET AT THE BEGINNING OF EACH CRYPTOGRAPHIC PERIOD, THE DRAWER WILL BE RETURNED TO A POSITION JUST SHORT OF THE "OFF" POSITION. THE UNIT WILL ALWAYS BE OPERATED FROM THIS POSITION.

B. ONLY THOSE PERSONS WHOSE NAMES APPEAR ON THE "APPROVED LIST" MAY BE ADMITTED TO THE ROOM WHEN THE WARNING LIGHT IS ON. THE SIGHUAD AND ITS RELATED PARTS AND DOCUMENTS WILL BE RETURNED TO AND LOCKED IN THEIR SAFES BEFORE A "VISITOR" IS ADMITTED TO THE ROOM. THE ONLY EXCEPTION TO THIS POLICY WILL BE IN THE EVENT IT IS NECESSARY FOR A VISITING CONFEREE NOT ON THE APPROVED LIST TO ATTEND A CONFERENCE CONDUCTED OVER THE SIGHUAD CIRCUIT. IN THIS CASE THE CONFEREE WILL NOT BE ALLOWED TO VIEW OR HAVE ACCESS TO THE CIPHER DEVICE. IF IT IS NECESSARY TO RE-SET THE DEVICE DURING A CONFERENCE, IT WILL BE THE DUTY OF THE RESPONSIBLE OFFICER TO INSURE PROPER PROTECTION OF THE DEVICE EITHER BY SCREENING IT FROM VIEW OR BY HAVING THE VISITING CONFEREE WAIT OUTSIDE THE CRYPTOROOM UNTIL THE RE-SET HAS BEEN MADE.

**2. TRADON**

A. THE TRADON IS AN UNCLASSIFIED DEVICE. HOWEVER, ITS ONE-TIME KEYING TAPES ARE CLASSIFIED SECRET AND MUST BE HANDLED ACCORDINGLY. ONE-TIME TAPES WILL BE STORED IN A LOCKED THREE-WAY COMBINATION SAFE WHEN NOT IN USE. TAPES WHICH ARE BEING USED WILL BE COVERED OR RETURNED TO THEIR SAFE BEFORE ANYONE WHOSE NAME DOES NOT APPEAR ON THE APPROVED LIST IS ADMITTED TO THE ROOM.

B. SEGMENTS OF THE ONE-TIME TAPE WILL BE MUTILATED BY TEARING THEM INTO ONE INCH LENGTHS IMMEDIATELY AFTER USE. (SEE LETTER 692, PARAGRAPH 5D).

**SECRET**

THESE MUTILATED TAPES ARE STILL CLASSIFIED SECRET AND WILL BE SECURELY STORED IN A THREE-WAY COMBINATION SAFE UNTIL THEY ARE COLLECTED BY THE CRYPTOGRAPHIC COURIER OF COMMUNICATIONS DIVISION. NOTE: THESE MUTILATED TAPES WILL BE PROTECTED BY DOUBLE SEALED WRAPPERS OR ENVELOPES AND WILL BE HANDLED AS SECRET POUCHES. THESE POUCHES WILL BE COVERED BY RECEIPTS.

C. DURING CONFERENCES OVER THE TRADON CIRCUIT WHICH IS BEING ATTENDED BY CONFEREES NOT ON THE APPROVED LIST THE SIGHUAD CIRCUIT MUST BE TEMPORARILY CLOSED AND THE DEVICE, ASSOCIATED PARTS AND DOCUMENTS RETURNED AND LOCKED IN THEIR SAFES. THERE IS NO RESTRICTION ON THE VIEWING OF TRADON BY CONFEREES.

### 3. ROOM SECURITY

A. SECURITY CHECK SHEETS WILL BE MAINTAINED FOR THE SAFES AND ENTRANCE DOOR OF THE CRYPTOROOM. THE COMPLETED CHECK SHEETS WILL BE FORWARDED TO THE CHIEF, COMMUNICATIONS DIVISION, MARKED "ATTN: CHIEF, SIGNAL SECURITY CONTROL SECTION ON THE FIRST WORKING DAY OF EACH MONTH. SIGNAL SECURITY CONTROL SECTION WILL CHECK AND FORWARD THEM TO THE SECURITY BRANCH.

B. THE CRYPTOROOM, 2049-B MAY BE LEFT UNLOCKED DURING THE DAY PROVIDED ONE OF THE OPERATING PERSONNEL IS AT HIS DESK LOCATED IMMEDIATELY IN FRONT OF THE ENTRANCE DOOR TO THE CRYPTOROOM. THE ENTRANCE MUST BE UNDER THE OBSERVATION OF A DULY AUTHORIZED PERSON AT ALL TIMES. IF ALL AUTHORIZED PERSONNEL LEAVE THE IMMEDIATE VICINITY OF THE CRYPTOROOM DOOR, ALL CRYPTO MATERIAL, DEVICES, ETC., WILL BE RETURNED TO AND LOCKED IN THEIR SAFES AND THE OUTSIDE ENTRANCE DOOR TO THE CRYPTOROOM WILL BE LOCKED.

C. SAFE AND DOOR COMBINATIONS OF THE CRYPTOROOM WILL BE CHANGED BY SIGNAL SECURITY CONTROL SECTION. IF ANY PERSON WITH KNOWLEDGE OF THESE COMBINATIONS LEAVES THE EMPLOY OF THE OFFICE OR HAS, FOR SOME OTHER REASON, NO FURTHER NEED TO KNOW THE COMBINATIONS, THE RESPONSIBLE OFFICER WILL NOTIFY SIGNAL SECURITY CONTROL SECTION SO THAT THE COMBINATIONS MAY BE CHANGED PROMPTLY. SIGNAL SECURITY CONTROL SECTION WILL FILE THESE COMBINATIONS WITH THE SUPERVISOR OF THE SIGNAL CENTER, COMMUNICATIONS DIVISION. THE COMBINATIONS MAY BE ACQUIRED, IN EVENT OF AN EMERGENCY, BY ANY PERSON WHOSE NAME APPEARS ON THE APPROVED LIST UPON PRESENTATION OF PROPER IDENTIFICATION. WHEN A COMBINATION IS REMOVED FROM AN ENVELOPE, THE FORM ENCLOSED THEREIN WILL BE COMPLETED AND FORWARDED TO THE CHIEF, SIGNAL SECURITY CONTROL SECTION, AND THE COMBINATION RESEALED IN A DOUBLE ENVELOPE. COMBINATIONS TO THIS CRYPTOROOM AND ITS SAFES WILL NOT BE CHANGED BY OR FILED WITH THE SECURITY BRANCH.

### 4. CLASSIFICATION OF CORRESPONDENCE

THE CLASSIFICATION WILL BE TRANSMITTED (ENCRYPTED) AS THE FIRST AND LAST WORD OF EACH PIECE OF CORRESPONDENCE. FURTHER, THE CLASSIFICATION WILL BE STAMPED AT THE TOP AND BOTTOM OF EACH PAGE OF OUTGOING AND INCOMING CORRESPONDENCE AFTER IT HAS BEEN REMOVED FROM THE PRINTER.

cc: SCPSU

**SECRET**

CHIEF, COMMUNICATIONS DIVISION